

AMENDMENTS TO THE CLAIMS

Claims 1-12 (canceled)

Claim 13 (currently amended): A flat panel display comprising:

a front plate;

a rear plate;

a layer of liquid crystals and a TFT array layer, both interposed between the said. front and rear plates; and

at least one thermal sensor integral to the TFT array layer and hidden by an EMI layer to provide temperature sensing of said layer of liquid crystals.

Claim 14 (original): A flat panel display according to claim 13, wherein said at least one thermal sensor is comprised of an array of diodes.

Claim 15 (canceled)

Claim 16 (previously presented): A flat panel display according to claim 13, wherein the at least one thermal sensor is applied onto the TFT array layer.

Claim 17 (previously presented): The flat panel display of claim 13, wherein:

the thermal sensor provides a nominal 2.5 volt to 5.0 volt change in bias potential as the liquid crystal temperature changes from -60 degrees Celsius to 100 degrees Celsius.

Claim 18 (canceled)

Claim 19 (currently amended): The flat panel display of claim 48 13, wherein each at least one thermal sensor lies under the EMI layer.

Claim 20 (currently amended): The flat panel display claim 48 13, wherein the EMI layer is a black mask EMI layer.